CHECKLIST Bachelor of Engineering (Honours) – Chemical & Materials Engineering (2342): Completion of pre-2021 program

Full name:_____ Student Number:_____ Date:_____

Points to note

- You need to ensure that you meet minimum program and major requirements (listed below)
- You cannot count the same course twice
- You need to ensure that you don't take courses that are incompatible with courses that you have already counted towards your program, and that any prerequisites havebeen met

You must complete for the BE(Hons) (Chemical & Materials Engineering Plan code: CHMATW2342), 64 units comprising -

(i) 58 units being all courses from part A - compulsory (listed below), and
(ii) 2 units from part B4 - advanced electives, and
(iii) 4 units from electives

PART A

Tick the courses you have completed and nominate the alternative course you plan to choose (if required). Discontinued courses are coloured red.

✓/X compl.	Pre-2021 Part A list	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	58 units, being all courses from: Part A - Compulsory							
	ENGG1100 Engineering Design (2) **and** **ENGG1200** Engineering Modelling & Problem Solving **(2) (discontinued)** **OR** **ENGG1211** Engineering Design, Modelling & Problem Solving (4) (discontinued)	2 2 4	 **2/20** **2/20**	**ENGG1100** Professional Engineering and * If you have not completed ENGG1200, please contact EAIT Student Admin for replacement	1,2	2 2		
	MATH1051 Calculus & Linear Algebra I **OR** **MATH1071** Advanced Calculus & Linear Algebra I	2		**MATH1051** Calculus & Linear Algebra I **OR** **MATH1071** Advanced Calculus & Linear Algebra I	1,2	2		
	MATH1052 Multivariate Calculus & Ordinary Differential Equations **OR** **MATH1072** Advanced Multivariate Calculus & Ordinary Differential Equations	2		**MATH1052** Multivariate Calculus & Ordinary Differential Equations **OR** **MATH1072** Advanced Multivariate Calculus & Ordinary Differential Equations	1,2	2		
	CHEM1100 Chemistry 1	2		**CHEM1100** Chemistry 1	1,2	2		
	ENGG1500 Engineering Thermodynamics	2		**ENGG1500** Thermodynamics: Energy and the Environment	1,2	2		
	CHEE2001 Process Principles	2		**CHEE2001** Process Principles	1,2	2		
	CHEM1200 Chemistry 2	2		**CHEM1200** Chemistry 2	1,2,S	2		
	MATH2000 Calculus & Linear Algebra II (discontinued) OR **MATH2001** Advanced Calculus & Linear Algebra II	2	**2/20**	**MATH2001** Calculus & Linear Algebra II	1,2,S	2		
	MECH2300 Structures & Materials **or** **MECH2305** Introduction to Engineering Design and Manufacturing	2		**MECH2300** Structures & Materials **or** **MECH2305** Introduction to Engineering Design and Manufacturing	1 1	2		
	CHEE2003 Fluid & Particle Mechanics	2		**CHEE2003** Fluid & Particle Mechanics (will change to semester 1 in 2022)	2	2		
	CHEE2010 Engineering Investigation & Statistical Analysis	2		**CHEE2010** Engineering Investigation & Statistical Analysis (will change to semester 1 in 2022)	2	2		

✓ - course already completed **X** – course to be undertaken

Checked by (Faculty: Name and Date): _____

	CHEM2056 Physical Chemistry for Engineering	2		**CHEM2056** Physical Chemistry for Engineering	1	2		
	MECH2310 Science & Engineering of Metals	2		**MECH2310** Science & Engineering of Metals	2	2		
	CHEE3002 Heat & Mass Transfer (discontinued)	2	**1/22**	***CHEE2040*** *Heat & Mass Transfer*	2	2	**2/22**	
	CHEE3003 Chemical Thermodynamics (discontinued)	2	**1/22**	***CHEE2030*** *Chemical Thermodynamics*	2	2	**2/22**	
	CHEE3020 Process Systems Analysis	2		**CHEE3020** Process Systems Analysis (will change to semester 2 in 2023)	1	2		
	CHEE3301 Polymer Engineering	2		**CHEE3301** Polymer Engineering	1	2		
	CHEE3004 Unit Operations	2		**CHEE3004** Unit Operations (will change to semester 1 in 2023)	2	2		
	CHEE3005 Reaction Engineering	2		**CHEE3005** Reaction Engineering (will change to semester 1 in 2023)	2	2		
	CHEE3007 Process Modelling & Dynamics	2		**CHEE3007** Process Modelling & Dynamics	2	2		
	MECH3301 Materials Selection	2		**MECH3301** Materials Selection	2	2		
	CHEE4002 Risk in Process Industries	2		**CHEE4002** Risk in Process Industries	1	2		
	CHEE4009 Transport Phenomena	2		**CHEE4009** Transport Phenomena	1	2		
	CHEE4060 Process & Control System Synthesis (discontinued)	2	**1/23**	***CHEE2020*** *Process Equipment & Control Systems (NEW)*	2	2	**2/22**	
	MECH4304 Net Shape Manufacturing	2		**MECH4304** Net Shape Manufacturing	1	2		
	ENGG4900 Professional Practice and the Business Environment	2		**ENGG4900** Professional Practice and the Business Environment	1,2	2		
	CHEE4001 Process Engineering Design Project	4		**CHEE4001** Process Engineering Design Project	2	4		
	Part A units completed pre-2021:			**Part A units to be substituted/completed:**				
				Total – Part A (must add up to 58):				

PART B

✓/X compl.	Part B0 - Preparatory Mathematics & Science Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	CHEM1090 Introductory Chemistry	2		**CHEM1090** Introductory Chemistry	1	2		
	MATH1050 Mathematical Foundations	2		**MATH1050** Mathematical Foundations	1,2	2		
	PHYS1171 Physical Basis of Biological Systems	2		**PHYS1171** Physical Basis of Biological Systems	1,2	2		

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✓/X compl.	Part B1 - Introductory Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	BIOL1040 Cells to Organisms	2		**BIOL1040** Cells to Organisms	1,2	2		
	CHEE1001 Principles of Biological Engineering (discontinued)	2	**1/20**	***BIOE1001*** *Principles of Biomedical & Bioprocess Engineering*	1	2	**1/21**	
	CSSE1001 Introduction to Software Engineering	2		**CSSE1001** Introduction to Software Engineering	1,2	2		
	ENGG1300 Introduction to Electrical Systems	2		**ENGG1300** Introduction to Electrical Systems	1,2	2		
	ENGG1400 Engineering Mechanics: Statics & Dynamics (discontinued)	2	**2/20**	***ENGG1700*** *Statics and Materials*	1,2	2	**1/21**	
	ENGG1600 Introduction to Research Practices - The Big Issues	2		**ENGG1600** Introduction to Research Practices - The Big Issues	2	2		
	ENGG2000 Humanitarian Engineering	2		**ENGG2000** Humanitarian Engineering	2	2		
	ENVM1522 Carbon and Energy Management	2		**ENVM1522** Carbon and Energy Management	2	2		
	ERTH1501 Earth Processes & Geological Materials for Engineers	2		**ERTH1501** Earth Processes & Geological Materials for Engineers	1	2		
	PHYS1002 Electromagnetism and Modern Physics	2		**PHYS1002** Electromagnetism and Modern Physics (semester 2 only from 2022)	1,2	2		
✓/X compl.	Part B2 - Electives	#	Last offered	If NOT completed – you can choose*:	Sem offering	#	First offered	✓/X compl.
	BIOC2000 Biochemistry & Molecular Biology	2		**BIOC2000** Biochemistry & Molecular Biology	1	2		
	BIOL2202 Genetics	2		**BIOL2202** Genetics	2	2		
	CHEE2501 Environmental Systems Engineering I: Processes (discontinued)	2	**2/20**	***ENVE2501*** *Environmental Systems*	2	2	**2/21**	
	CHEE3008 Special Topics C	2		**CHEE3008** Special Topics C	1,2	2		
	CHEE3301 Polymer Engineering	2		**CHEE3301** Polymer Engineering	1	2		
	CHEE4003 Special Topics A	2		**CHEE4003** Special Topics A	2	2		
	CHEE4015 Special Topics VII (discontinued from 2/21)	1		**Any BE Elective**				
	CIVL3141 Hydrology and Hydrological Risk (discontinued)	2	**2/21**	***CIVL3155*** *Hydrology & Free Surface Flows (NEW)*	2	2	**2/22**	
	ENGG4103 Engineering Asset Management	2		**ENGG4103** Engineering Asset Management	1	2		
	ENVM3103 Regulatory Frameworks for Environmental Management & Planning	2		**ENVM3103** Regulatory Frameworks for Environmental Management & Planning	1	2		
	FOOD2000 Food Science	2		**FOOD2000** Food Science	1	2		
	FOOD3007 Food Structure & Sensory Science	2		**FOOD3007** Food Structure & Sensory Science	2	2		
	FOOD3008 Food Process Engineering II	2		**FOOD3008** Food Process Engineering II	2	2		
	FOOD3011 Food Product Development	2		**FOOD3011** Food Product Development	2	2		

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BE(Hons) Transition Plan – Chemical & Materials Engineering continuation **Checked by (Faculty: Name and Date):** _____

	FOOD3017 Food Policy, Safety & Quality Management	2		**FOOD3017** Food Policy, Safety & Quality Management	1	2		
	MICR2000 Microbiology & Immunology	2		**MICR2000** Microbiology & Immunology	2	2		
	MICR2001 Food Microbiology I	2		**MICR2001** Food Microbiology I	2	2		
	MINE2201 Physical & Chemical Processing of Minerals	2		**MINE2201** Metal Production and Recycling	2	2		
	MINE3211 Special Topics in Minerals Processing II (discontinued)	2		**Any BE Elective**				
	MINE3212 Pyrometallurgy	2		**MINE3212** Pyrometallurgy	2	2		
	MINE3219 Process Mineralogy and Comminution	2		**MINE3219** Process Mineralogy and Comminution	2	2		
	MINE4207 Special Topics in Minerals Processing I (discontinued)	1		**Any BE Elective**				
✓/X compl.	Part B4 - Advanced Electives	**#**	Last offered	If NOT completed – you can choose*:	Sem offering	**#**	First offered	**✓/X compl.**
	CHEE4012 Industrial Wastewater & Solid Waste Management	2		**CHEE4012** Industrial Wastewater & Solid Waste Management	2	2		
	CHEE4020 Biomolecular Engineering	2		**CHEE4020** Bioprocess Engineering	1	2		
	CHEE4022 Principles of Adsorption	2		**CHEE4022** Principles of Adsorption	2	2		
	CHEE4034 Cell & Tissue Engineering (discontinued)	2	**1/20**	***BIOE6034*** *Cell and Tissue Engineering*	1	2	**1/21**	
	CHEE4301 Nanomaterials (discontinued)	2	**2/20**	***MATE6301*** *Nanomaterials*	2	2	**2/21**	
	CHEE4302 Electrochemistry & Corrosion (discontinued)	2	**2/20**	***MATE4302*** *Electrochemistry and Corrosion*	2	2	**2/21**	
	CHEE4303 Interface and Colloid Science and Engineering	2		**CHEE4303** Interface and Colloid Science and Engineering	1	2		
	CHEE4305 Biomaterials: Materials in Medicine (discontinued)	2	**2/20**	***BIOE4305*** *Biomaterials: Materials in Medicine*	2	2	**2/21**	
	ENGG3500 Reservoir Engineering	2		**ENGG3500** Reservoir Engineering	2	2		
	ENGY4000 Energy Systems	2		**ENGY4000** Energy Systems	1	2		
	MINE4203 Flotation	2		**MINE4203** Flotation	1	2		
	MINE4204 Aqueous Solution Processes	2		**MINE4204** Hydrometallurgy and Electrometallurgy	1	2		

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